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Donald et al.

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(54) **TRACKING SYSTEM AND METHOD OF OPERATION THEREOF**

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(58) **Field of Search** 367/130, 129, 367/124, 121, 119, 118, 901; 702/143, 152

(56) **References Cited**

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(57) **ABSTRACT**

A method and apparatus for detecting, processing and tracking sonar signals to provide bearing, range and depth information that locates an object in three-dimensions underwater space. A Twenty Six Nearest Neighbor Peak Picker (TSNNPP) is disclosed that improves the detection of signals in noisy background by differentiating bandwidth (BW) characteristics of signals from BW characteristics of noise.

4 Claims, 4 Drawing Sheets

